

PROJECT NAME: Utah Center for Ultra-Clean Coal Utilization and Heavy Oil Research

RECIPIENT: The University of Utah

LOCATION: Salt Lake City, UT

PURPOSE: Funding for energy research projects of this size and scope require federal and state support to develop feasibility of future energy supplies. The center will utilize energy resources in Utah, particularly within the Uinta Basin for the production of safe, clean fossil energy. All communities across the state will benefit from the future production of the clean energy resources found in Utah. The development of clean production of domestic unconventional fossil fuel resources will aid in meeting the energy needs of the United States as we remain dependent on fossil energy for the next three decades at least. The project can be measured in the development and commercialization of both clean coal and heavy oil production in Utah. Great progress has been made in the development of programs to address the future energy needs of the state, region, and nation. The ultimate commercialization of this research will provide future long term success for the program. Initial start up funding is required to develop a program for the development of the resources found in Utah.

The University of Utah Institute for Clean and Secure Energy will pursue research and development of an interdisciplinary, cradle-to-grave, approach to energy needs through the generation of electricity and the production of liquid fuels from the abundant domestic coal, oil shale and oil sands resources with special emphasis on minimizing carbon footprints, through the use of CO₂ capture for the purpose of CO₂ storage (sequestration). Simulation & validation with experimental measurements will be used together to guide the design and optimization of technologies for mitigating greenhouse gas emissions and to reduce the time from inception to commercialization. The institute will educate a new generation of professionals in the energy field to replace the current aging population of experienced energy professionals.

The Administration continues to call for a radical divergence of US energy policy to move towards renewable energy in an effort to combat greenhouse gas emissions. There remain considerable challenges ahead with regards to carbon capture and sequestration issues, development and implementation of clean coal technologies, while trying to maintain a reliable supply of oil and gas supplies in the United States. Taxpayers will benefit from an impressive multiplier effect as unconventional fossil energy technologies make previously undeveloped energy resources technologically and economically feasible potentially producing billions in federal royalties and taxes as this fledgling industry evolves.

AMOUNT: \$10,000,000